



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
31.12.2014 Bulletin 2015/01

(51) Int Cl.:
H01L 33/60 ^(2010.01) **H01S 5/022** ^(2006.01)

(43) Date of publication A2:
02.01.2013 Bulletin 2013/01

(21) Application number: **12158913.9**

(22) Date of filing: **09.03.2012**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(71) Applicant: **LG Innotek Co., Ltd.**
Seoul 100-714 (KR)

(72) Inventor: **Park, Sang Jae**
100-714 Seoul (KR)

(74) Representative: **Zardi, Marco**
M. Zardi & Co. SA
Via Pioda 6
6900 Lugano (CH)

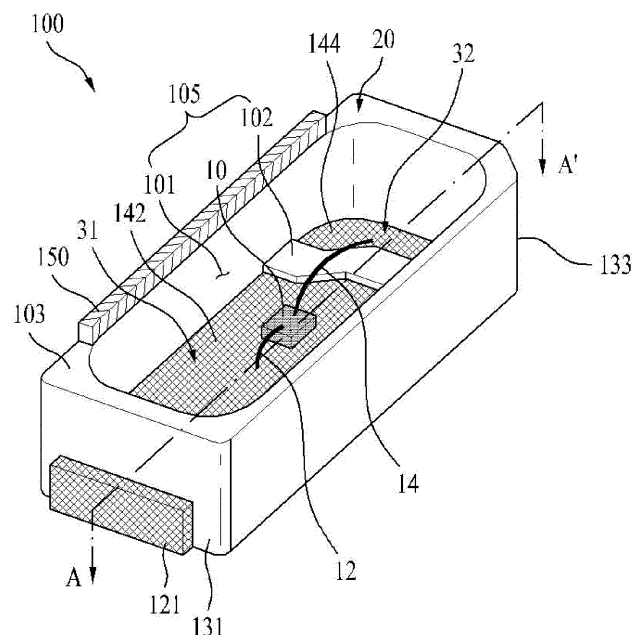
(30) Priority: **30.06.2011 KR 20110064972**

(54) **Light emitting device package**

(57) An embodiment discloses a light emitting device package (100) including a first lead frame (31) and a second lead frame (32) disposed spaced from each other, a light emitting device (10) disposed on the first lead frame (31), and a body (20) having a reflective sidewall

(101) disposed on the first lead frame (31) and the second lead frame (32) to surround the light emitting device (10), wherein a portion of the reflective sidewall has a height higher than the other portion of the reflective sidewall.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 12 15 8913

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2010/034281 A1 (OSRAM OPTO SEMICONDUCTORS GMBH [DE]; BRICK PETER [DE]; ZITZLSPERGER MI) 1 April 2010 (2010-04-01) * page 5, lines 2,3 * * page 20, line 20 - page 25, line 25 * * figures 2-5 *	1,2,7-9	INV. H01L33/60 ADD. H01S5/022
X	US 2007/086148 A1 (SCHWENKSCHUSTER LUKAS [DE] ET AL) 19 April 2007 (2007-04-19) * figures 7,8 *	1-6,8,9	
X	JP 2008 282575 A (STANLEY ELECTRIC CO LTD) 20 November 2008 (2008-11-20) * abstract * * figures 1,2,3,4,5,6,7,8 *	1,7	
X	US 2009/147498 A1 (PARK DONG WOOK [KR]) 11 June 2009 (2009-06-11) * figure 2 *	10-15	
A	WO 2006/082559 A1 (KONINKL PHILIPS ELECTRONICS NV [NL]; LUMILEDS LIGHTING LLC [US]) 10 August 2006 (2006-08-10) * the whole document *	1-15	TECHNICAL FIELDS SEARCHED (IPC) H01L H01S
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 24 November 2014	Examiner Gijsbertsen, Hans
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

1
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 12 15 8913

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-11-2014

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2010034281 A1	01-04-2010	CN 102165502 A	24-08-2011
		DE 102008048846 A1	08-04-2010
		EP 2329477 A1	08-06-2011
		JP 2012503847 A	09-02-2012
		KR 20110057236 A	31-05-2011
		US 2011182075 A1	28-07-2011
		WO 2010034281 A1	01-04-2010

US 2007086148 A1	19-04-2007	DE 102005059524 A1	05-04-2007
		EP 1770793 A2	04-04-2007
		JP 5156214 B2	06-03-2013
		JP 2007103937 A	19-04-2007
		US 2007086148 A1	19-04-2007

JP 2008282575 A	20-11-2008	JP 5150133 B2	20-02-2013
		JP 2008282575 A	20-11-2008

US 2009147498 A1	11-06-2009	KR 20090059370 A	11-06-2009
		US 2009147498 A1	11-06-2009

WO 2006082559 A1	10-08-2006	JP 2006222430 A	24-08-2006
		US 2006175626 A1	10-08-2006
		WO 2006082559 A1	10-08-2006
